Project Descriptions for May 17, 2017

Board of Trustees Meeting

Clean Water Commitments

Middleborough CWT-17-04
Community Septic Management Program

MWRA CW-17-03
This project will ensure that the plant continues to meet its discharge permit requirements by replacing obsolete equipment and systems. Some of the contracts are expected to result in decreased maintenance and/or operating costs. All equipment is at the end of its useful life. Contract No. 7110 HVAC Equipment Replacement -Replacement of various Heating, Ventilation and Cooling units through the treatment plant. Replacements include fan coil units, air handling units, chiller systems, the WWTP central HVAC control system, and 29 existing fume hoods in the Laboratory Contract Nos. 7059/7420 Switchgear and NMPS MCC Replacements - Replacement of various electrical low voltage distribution equipment that provides power to critical pumping stations and laboratory processes Contract No. 7051 Fire Alarm Replacement - Replacement of the central fire detection and alarm system throughout the treatment plant

Nantucket CW-16-35
The proposed project will replace the existing pumps and internal discharge piping and valves, provide provisions for additional pumping capacity, new electrical and instrumentation control systems, HVAC and plumbing systems, and required internal and external structural and architectural improvements, thereby bringing the facility up to local building codes. Once the upgrades are constructed, the pump station will provide reliable and redundant sewage pumping capacity for the downtown area, thereby preventing potential failures that would cause raw sewage backups from the municipal collection system, the result of which could cause sanitary sewer overflows within the downtown area and adjacent recreational boat basin and harbor area.

Drinking Water Commitments

Haverhill DW-16-05
The Haverhill Water Treatment Plant has provided the city with service far in excess of its planned useful life. Critical components are aging and approaching obsolescence, with acquisition of replacement parts difficult or impossible. This project includes an upgrade to treatment capacity from approximately 10 million gallons per day (MGD) to 12.1 MGD to provide much needed redundancy of primary treatment components and to replace outdated systems. The updated plant will meet the needs of the City under a variety of existing and future conditions.

New Bedford DW-17-03
The Lead Service Line Replacement Program – Phase I is the first phase of an aggressive, multi-year program to replace all remaining Lead Service Lines (LSLs) in the City of New Bedford within the next several years. The first phase of this program will replace about 1,000 to 1,500 LSLs in a two-year period throughout the City's water distribution system. The adverse health effects of lead exposure in children and adults are well documented, and no safe blood level threshold in children has been established. Lead exposure causes neurological and cognitive impairments in children and fetuses and can cause high blood pressure and kidney problems in adults. The City is committed to protecting public health and continuing to provide safe drinking water to all of its customers, and as such, this aggressive Lead Service Line Replacement Program demonstrates that commitment to maintain continued compliance with the Lead and Copper Rule.

Clean Water Agreements

Middleborough CWT-17-04
Community Septic Management Program

Nantucket CW-16-35
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Revere CW-16-18
The continuation of this program is essential for the City to meet their goals and comply with the Consent Decree. There are a significant number of illicit sump pump, roof drain, roof leader, driveway drain, yard drain, etc. connections from private homes and businesses that must be removed from the sanitary sewer system in order to remove inflow and increase the wastewater capacity of the City's sewer system. These contracts become the mechanism to remove inflow.

Saugus CWP-16-09
This Subsystem 4B project includes the rehabilitation of pipelines, manholes, and the removal of private inflow sources to eliminate infiltration/inflow (I/I) from the sewer system and significantly reduce or eliminate sewer system overflows from occurring at the Lincoln Avenue Pumping Station. Approximately 34,000 feet of 8-inch and 12-inch pipe and 1,500 ft of 15-inch pipe will be rehabilitated using cured in place pipe lining. Also approximately 865 sewer services and 222 manholes will be lined as part of the project. The Pump Station Upgrade & Replacement project involves the replacement of the existing Morris Place pump station and improvements to the Bristol Street pump station. The equipment within many of the Town's wastewater pump stations has been operating beyond its design life and in some cases is exhibiting signs of failure. Replacement of the existing Morris Place Pump Station is required due to the poor structural condition of the structure, the need to restore useful life and as a result of the close proximity of the station to environmental receptors. Improvements to the Bristow Street Pump Station are required to restore useful life of the station, improve operator safety, alleviate flooding concerns and improve system reliability.

Drinking Water Agreements

Dedham – Westwood Water District
The Bridge Street Water Treatment Plant (BSWTP) has performed reliably for the District for over one hundred years, but is in need of significant rehabilitation and updating to continue to protect the safety of the water supply and reliably supply customers of the District. Improvements will also improve the conditions and worker safety within the facility. This project will include renovations to the existing treatment facility along with the addition of a new multi-purpose treatment building.

Haverhill DW-16-05
The Haverhill Water Treatment Plant has provided the city with service far in excess of its planned useful life. Critical components are aging and approaching obsolescence, with acquisition of replacement parts difficult or impossible. This project includes an upgrade to treatment capacity from approximately 10 million gallons per day (MGD) to 12.1 MGD to provide much needed redundancy of primary treatment components and to replace outdated systems. The updated plant will meet the needs of the City under a variety of existing and future conditions.